

(d) Pull switches, circuit breakers, or other power controls shall be mounted on slate or other suitable insulation material.]

[7-435.

(a) Any high-potential power cable of at least 600 volts, carried from the surface through any shaft, borehole, or underground passageway shall be adequate for the services intended, if it is installed in a permanent manner and guarded from mechanical injury. Power wires carrying less than 600 volts, whether bare or insulated, except ground wires and trailing cables, shall be supported on or by well-installed insulators. The wires may not touch combustible materials, roof, or ribs.

(b) Power wire shall be insulated properly when passing through any door or stopping, and where it crosses any other power circuit. Electric cable and wire, other than signal and trolley wire used for haulage, which is installed in any haulage slope shall be buried not less than 12 inches below combustible material or installed in a fireproof protective conduit.

(c) If track is used as a power conductor:

(1) Both rails of main-line track shall be well bonded at every joint and cross bonded at least every 200 feet; but, if the track circuit is paralleled with a feeder cable, both rails of track shall be well bonded at every joint and cross bonds installed at least every 1,000 feet in both the track and feeder circuit;

(2) At least one rail on each secondary haulage road shall be well bonded at every joint with a cross bond installed at least every 200 feet; and

(3) Any switch on an entry shall be well bonded.

(d) Power shall be disconnected before repair work is done on any energized electric circuit or energized part of electric equipment. Any worker required to repair the energized bare trolley line either shall wear protective clothing, such as insulated shoes and lineman's gloves, or the power shall be disconnected.

(e) Trolley and direct and alternating current feeder wires shall be installed as follows:

(1) On the opposite side of the entry from any shelter hole or clearance space, except where six and one-half feet or more above the rail or at adequately guarded shelter holes;

(2) The hanger on each curve shall be spaced so the trolley wire can be detached at any one hanger without exposing the locomotive operator to a shock hazard;

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